

Patent Abstracts of Japan

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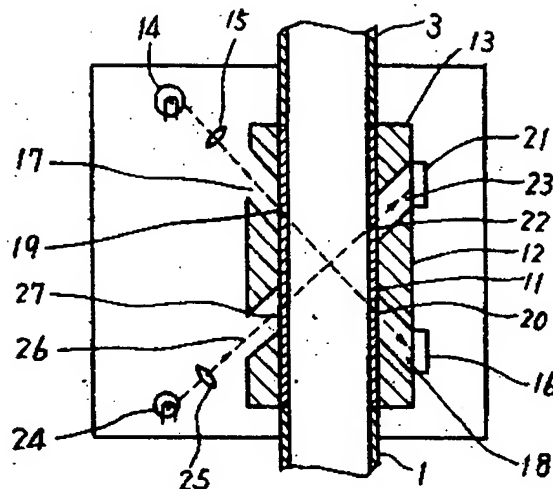
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TITLE : TURBIDITY MEASURING DEVICE



ABSTRACT : PURPOSE: To measure turbidity always correctly without error in the indication by providing two cell windows through which two light beams are alternately shot into a water specimen and passing the translucent light and diffused light alternately through all the cells and leading the lights to a light receiving device.

CONSTITUTION: A light beam is collected by a lens 15 and shot into a water specimen through a light leading hole 17 and the cell window 19, and the translucent light 1 passes through the cell window 20 and the light leading hole 17 to be received at a light receiving device 16, and diffused light I_2 passes through the cell window 22 and a light leading hole 18 to be received by a light receiving device 21. Then a lamp 14 as the light source is turned off and another light source lamp 24 is turned on. The light receiving device 21 receives the translucent light I_4 and the light receiving device 16 receives the diffused light I_3 . The light source lamps 14 and 24 are thus lighted alternately to receive respectively translucent light and diffused light, and by performing calculation $(I_2 \times I_3 / I_1 \times I_4)^{1/2}$ always correct turbidity measurement can be made without developing error due to stain on the cell window during the measurement.

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